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- (71) Applicant (*for all designated States except US*): **ARENA PHARMACEUTICALS, INC.** [US/US]; 6166 Nancy Drive, San Diego, CA 92121 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **LEHMANN-BRUINSMA, Karin** [DE/US]; 12565 Pathos Lane, San Diego, CA 92129 (US). **LIU, Chen, W.** [US/US]; 7668 Salix Place, San Diego, CA 92129 (US). **LIN, I-Lin** [—/US]; 8291-7 Gold Coast Drive, San Diego, CA 92126 (US).

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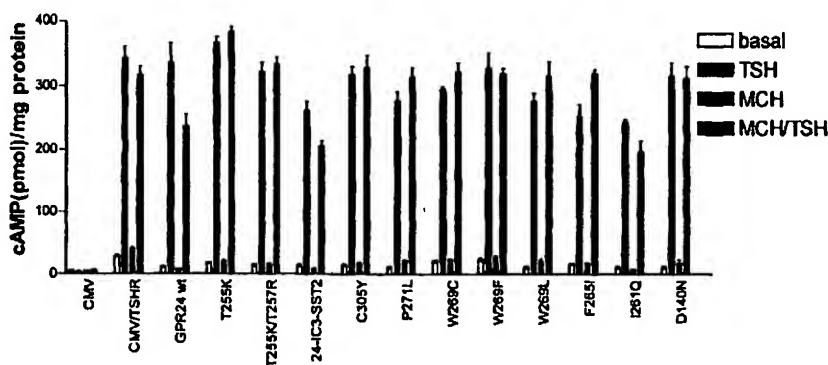
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(54) Title: **NON-ENDOGENOUS, CONSTITUTIVELY ACTIVATED KNOWN G PROTEIN-COUPLED RECEPTORS**

Cell-Based Cyclase Assay



GPCR Co-Transfected with TSHR (A623I)

(57) Abstract: The invention disclosed in this patent document relates to transmembrane receptors, more particularly to a human G protein-coupled receptor for which the endogenous ligand is known ("known GPCRs"), and most particularly to mutated (non-endogenous) versions of the known GPCRs for use, most preferably in screening assays for the direct identification of candidate compounds as inverse agonists, agonists and partial agonists.